[illegible]

[illegible] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] leukotomy [illegible] [1][illegible] Total Quality Management [illegible]

[illegible] leukotomy [illegible]

[illegible]

[illegible]

[illegible]: to be "a leader to the Greeks and a despot to the barbarians, to look after the former as after friends and relatives, and to deal with the latter as with beasts or plants"[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

□□□

□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ [2]□□□□□□□□□□□□□□□□□□□

□□□ leukotomy □□□

□□Leukotomy □□□□□□□□□□□□□□

Moniz □□□□□□□□□□□"for his discovery of the therapeutic value of leucotomy in certain psychoses."□□ leukotomy □□□□□□□□ leukotomy □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□leucotomy □□□leucotomy □□ leucotomy □□□□□□□□□□□□□□□□□□□□□□□□□□□

Leukotomy □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

1□□□□□□□□□□□□ personalities □ mental diseases□

2□□ leukotomy □□□□□□□□□□□□□ leukotomy □□□□□□□□□□□□□□

3□□□ personality □ intelligence □□□□□□□□□□□ Walter Freeman □□□□□□□□□□□□□ personality □ intelligence □□□□□□□□□□□□□□ [3]□

□□□□□ personality □ intelligence□□□□□□ personalities □ mental diseases□□□□□□ personality □ intelligence □□□□□□□□□□□ personality □ intelligence □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□ personality □ intelligence □□□□□□□□□□□ personalities □ mental diseases□□□□□□□ personality □ intelligence □□□□□□□□□□□□□□□□□□□□□

Leukotomy □□

□□□□□□□□□□□□□□□□□ Turing Test □□□□□Nature □ AlphaGo Zero □□□□ superhuman □□□□□□□□□□ superhuman □□□ generic □ human□□□□□□□□□□□□□□□□□□□□□□□□□

Leukotomy □□□□□□□□□ Nature □ AlphaGo Zero □□□ superhuman □□□□□□□□□□□□□□□□ peer review □□□□□Peer review □□□□□ [4]□

□□□leukotomy □□□

[illegible]

[illegible]**AlphaGo Zero** [illegible] **Superhuman** [illegible]

Nature [illegible] AlphaGo Zero [illegible] superhuman [illegible] performance[illegible] superhuman [illegible] generic [illegible] human[illegible] superhuman [illegible]

AlphaGo Zero [illegible] AlphaGo Master [illegible] superhuman [illegible] game [illegible] generic [illegible] superhuman [illegible] game [illegible]

AlphaGo Zero [illegible] AlphaGo Zero [illegible]

[illegible]AlphaGo Zero [illegible]AlphaGo Zero [illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible]

[illegible] 4 [illegible] [5][illegible]

[illegible]

[illegible]

[illegible]

[illegible] AlphaGo Zero [illegible]

[illegible]

[illegible] AlphaGo [illegible] AlphaGo [illegible] [6][illegible]

[illegible] Turing Machine [illegible] AlphaGo [illegible]

[illegible] AlphaGo Zero [illegible] AlphaGo Master[illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible] [7][illegible]

[illegible]AlphaGo Zero [illegible] Deep Blue [illegible]AlphaGo Zero [illegible] Deep Blue [illegible]Demis Hassabis [illegible] [8][illegible] AlphaGo Zero [illegible] superhuman [illegible]

[illegible] Deepmind [illegible] [9][illegible]

[illegible]

[illegible]

[illegible]:“Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled”[illegible]

[illegible] AlphaGo Zero[illegible]

[illegible] SAE level 5 [illegible] SAE level 4 [illegible] SAE level 4 [illegible] SAE level 4 [illegible]

[illegible] 19X19 [illegible]AlphaGo Zero [illegible]

[illegible] address [illegible] 737Max [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] [10][illegible]

[illegible]

[illegible]

[illegible] Turing Machine [illegible] Universal approximation theorem [illegible]

[illegible] Technological Singularity[illegible]

[illegible]

[illegible]

1949 [illegible] leukotomy [illegible]

Turing Test [illegible] AI[illegible]A Modern Approach [illegible] Wind Tunnel approach [illegible] Nature [illegible] AlphaGo Zero [illegible] superhuman [illegible]Technological Singularity[illegible]In Math We Trust[illegible]“[illegible]”[illegible] [11][illegible] [12][illegible]

[illegible] Karl Popper [illegible]

[illegible] [13][illegible]

[illegible]Occam's Razor[illegible]

Occam's Razor [illegible] Occam's Razor [illegible]

[illegible] Occam's Razor [illegible] Leukotomy [illegible]

[illegible]

[illegible]

[illegible] Gu Test[illegible]A Progressive Measurement Of Generic Artificial Intelligence [illegible]

[illegible]

[illegible]

[illegible]

[illegible] [14][illegible]

[illegible] [15][illegible]

[illegible] [16][illegible]

[illegible]

[illegible]

[illegible]

[illegible] commonsense [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] [17] [illegible]

[illegible]·[illegible]

[illegible]

[illegible]

[illegible]·[illegible]

[illegible]

[illegible]

[illegible] [18] [illegible]

[illegible] [19][illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Chinese room [illegible]

[illegible]

[illegible] dataset [illegible] SQuAD [illegible] CoQA [illegible] QuAC [illegible] GLUE [illegible] dataset [illegible] Chinese room [illegible]

NLVR^2 [illegible] Natural Language for Visual Reasoning for Real [illegible] testset [illegible] GLUE [illegible] generic [illegible]

[illegible] Testsets [illegible] AI: A Modern Approach [illegible]

[illegible] guideline [illegible] judgement [illegible]

[illegible] Chinese room [illegible]

[illegible]

The Third Wave [illegible]

[illegible] AlphaGo [illegible] self-driving car [illegible]

The Third Wave [illegible]

[illegible]

[illegible] Total Quality Management [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Leukotomy [illegible]AI: A Modern Approach[illegible]

[illegible]

[illegible]“[illegible]”[illegible] [20][illegible]

[illegible] AI [illegible]

[illegible] AlphaGo Zero[illegible] AI: A Modern Approach [illegible]

[illegible] AI: A Modern Approach [illegible]AI [illegible] AI [illegible]

[illegible]

[illegible]

[illegible] Chinese room [illegible]

[illegible] judgement[illegible]

[illegible]

[illegible]

[illegible] [21][illegible]

[illegible]

[illegible]

[illegible]

1989 [illegible]“[illegible]”[illegible]

[illegible] AlphaGo [illegible] [22][illegible] Socratic [illegible]

[illegible] 2015 [illegible] Bohunt Chinese School [illegible] BBC [illegible] Are Our Kids Tough Enough ? [illegible]

[illegible] 2012 [illegible] PISA [illegible] 2015 [illegible] 2018 [illegible] PISA [illegible]

[illegible]Bohunt Chinese School [illegible] Bohunt [illegible] [23][illegible]

[illegible] PISA [illegible]

Bohunt [illegible] Confucianism[illegible]

[illegible] Bohunt [illegible]

[illegible]

[illegible]

[illegible] discipline [illegible] competition[illegible]

Discipline [illegible] Bohunt [illegible] Socratic [illegible]

[illegible] competition[illegible]

[illegible]“[illegible]”[illegible] 2012 [illegible]

[illegible]

[illegible]

[illegible] [24][illegible]

[illegible] [25][illegible]Leukotomy [illegible]

[illegible] Technological Singularity [illegible] AI: A Modern Approach [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]——[illegible]“[illegible]”[illegible] [26][illegible]

[illegible]

[illegible] Technological Singularity [illegible]

[illegible]

[illegible] Karl Popper [illegible]

[illegible]

[illegible]

BRAIN Initiative [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] The Development of Liberal Arts and Sciences [illegible]

~~~~~~~~~~~~~~~~~

[1] [illegible] AI: A Modern Approach [illegible]“Aristotle... was the first to formulate a precise set of laws governing the rational part of the mind.”(On page 5)[illegible]

[illegible] Wind Tunnel approach [illegible]

[illegible]

[2] [illegible]

[illegible]

[illegible]

[3] [illegible] Leucotomy in England and Wales, 1942-1954[illegible] 9284 [illegible]41[illegible]28[illegible]25[illegible]2[illegible]4[illegible]

[illegible] personality [illegible] intelligence[illegible] 25[illegible] personality [illegible] intelligence [illegible] clinical condition [illegible]41[illegible] 28[illegible] clinical condition [illegible]personality [illegible] intelligence [illegible]

[illegible]leucotomy [illegible]

[illegible] Renato M.E. Sabbatini [illegible]Even lobotomy's preponents admitted that only one third of the operated patients would improve, while one-third remained the same, and one-third got worst [illegible] Leucotomy in England and Wales, 1942-1954 [illegible]http://www.cerebromente.org.br/n02/historia/lobotomy.htm[illegible]

[illegible] one third would improve [illegible] one-third remained the same[illegible] clinical
~~~~~~~~~~~~~~~~~

condition[illegible] personality [illegible] intelligence [illegible]

[illegible] personality [illegible] intelligence [illegible] leucotomy [illegible] BRAIN Initiative [illegible]

[4] [illegible]

[illegible] peer review[illegible] peer review[illegible]

[illegible]AlphaGo Zero [illegible] superhuman [illegible] generic [illegible] human[illegible] AlphaGo Zero [illegible]

[5] [illegible]

[illegible]

[illegible] AlphaGo [illegible] Google [illegible] AlphaGo [illegible]AlphaGo Zero[illegible] AlphaGo [illegible]Human level artificial intelligence [illegible] AlphaGo [illegible]

[illegible]

[6] [illegible]

[illegible] Demis Hassabis [illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible] Deepmind [illegible]

[illegible] Deepmind [illegible] ethics board [illegible]Deepmind [illegible]Google [illegible] AlphaGo [illegible]

[7] [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible] AlphaGo Zero [illegible]AlphaGo Master [illegible] 16 [illegible] AlphaGo Zero [illegible] 18 [illegible]AlphaGo Zero [illegible] 14[illegible]16 [illegible] 45 [illegible]

1[illegible] Nature Magazime [illegible] AlphaGo [illegible]Deepmind [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible]

2) [illegible] AlphaGo Zero [illegible] local trap[illegible]

[8] [illegible] The Guadian [illegible] a meta-solution to any problem[illegible]

"Demis Hassabis ... is deadly serious when he tells me he is on a mission to 'solve intelligence, and then use that to solve everything else'.

……

'One way of thinking of AGI is as a process that will automatically convert unstructured information into actionable knowledge. What we’re working on is potentially a meta-solution to any problem.'",

from https://www.theguardian.com/technology/2016/feb/16/demis-hassabis-artificial-intelligence-deepmind-alphago[illegible]

[9] [illegible] Cracking Go [illegible] Deep Blue [illegible]AlphaGo [illegible] AlphaGo [illegible]

[10] [illegible]Universal approximation theorem [illegible] Turing Machine [illegible]

[11] In God We Trust [illegible] God [illegible] Trust[illegible]

[illegible]In Math We Trust [illegible]In Math We Trust [illegible]

[12] [illegible]

[13] [illegible]

[14] [illegible]

[15] [illegible]

[illegible]

[illegible]

[16] [illegible]

[17] [illegible] 1819 [illegible] Ferdinand Schweikart [illegible]

[illegible]

[illegible] 1830 [illegible]

[illegible]Ferdinand Schweikart [illegible]

[18] [illegible]·[illegible]“[illegible]”

[illegible]

[19] [illegible]

[illegible]

[illegible]

[illegible]

[illegible] wikipedia [illegible]

[illegible]

[illegible] emergent phenomena [illegible]

[20] [illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[21] [illegible]

[illegible] mainframe[illegible] personal computer[illegible] smartphone[illegible] smartphone [illegible]

[illegible] IT [illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible] 100 [illegible] 100 [illegible] 60 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[22] [illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible]

[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]

[23] “[illegible]·[illegible] BBC [illegible]”[illegible]http://shanghai.xinmin.cn/xmsq/2016/04/18/29861595.html[illegible]

[illegible]

[24] [illegible]“[illegible]”[illegible]·[illegible]“[illegible]”[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[25] [illegible]

[illegible]

[26] [illegible] Nature [illegible] AlphaGo Zero [illegible] superhuman [illegible] 60 [illegible]

[illegible]

[illegible] The selfish Gene [illegible]